

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-63.

- 1-68. (Cancelled)
69. (Previously submitted) A method comprising:
 - connecting a transmitter to a transmission line;
 - receiving an input signal; and
 - transmitting the input signal on the transmission line by switching between a first power source and a second power source to generate a balanced current signal, the first power source comprising a direct current voltage source and the second power source comprising a sinusoidal waveform generator and the direct current voltage source.
70. (Previously submitted) The method of claim 69, wherein the balanced current signal comprises a positive domain image and a negative domain image and wherein the negative domain image is inverted from the positive domain image.
71. (Previously submitted) The method of claim 69, wherein the transmission line is a twisted pair cable.
72. (Previously submitted) The method of claim 69, wherein the input signal is a digital signal.
73. (Previously submitted) The method of claim 69, wherein the sinusoidal waveform generator includes a direct current voltage offset.
74. (Previously submitted) A transmitter comprising:

a connection to a transmission line;

a plurality of power sources, the plurality of power sources comprising a first power source and a second power source, the first power source comprising a direct current voltage source, the second power source comprising a sinusoidal waveform generator and the direct current voltage source; and

a switch, wherein the switch is coupled to the plurality of power sources and wherein the switch generates a balanced current signal by switching between the plurality of power sources.

75. (Previously submitted) The transmitter of claim 74, wherein the balanced current signal comprises a positive domain image and a negative domain image and wherein the negative domain image is inverted from the positive domain image.
76. (Previously submitted) The transmitter of claim 74, wherein the transmission line is a twisted pair cable.
77. (Previously submitted) The transmitter of claim 74, wherein the sinusoidal waveform generator includes a direct current voltage offset.